

WATER QUALITY M E M O R A N D U M

Utah Coal Regulatory Program

December 31, 2008

TO: Internal File

THRU: Daron R. Haddock, Manager

FROM: James D. Smith, Permit Supervisor *JS 12/31/08*

RE: 2008 Third Quarter Water Monitoring, PacifiCorp, Trail Mountain Mine,
C/015/0009, Recurring Task ID #2713

The Trail Mountain Mine is currently idle. The monitoring plan is described in Appendix A of Volume 9 of the MRP.

1. Were data submitted for all of the MRP required sites?

In-mine

YES ☒ NO ☐

The mine is sealed, so other than the Oliphant portal discharge (18-1-1 or T-18), which is monitored as a spring, there is no monitoring of underground or in-mine water.

Springs

YES ☒ NO ☐

Streams

YES ☒ NO ☐

UPDES

YES ☒ NO ☐

DMRs were submitted in electronic format (Adobe). There was no discharge from either UPDES point during the third quarter 2007. The mine was sealed in June 2001 and there has been no reported discharge at UPDES UT23728-002 (the mine-water discharge into Cottonwood Creek) since May 2001.

Wells

YES ☒ NO ☐

Since July 2004, the water level in TM-3 has been reported as head above the casing elevation, determined from pressure measured by a gauge on the sealed wellhead.

WATER QUALITY MEMO

2. Were all required parameters reported for each site?

Springs	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Streams	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
UPDES	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Wells	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

3. Were any irregularities found in the data?

Listed parameters were outside two standard deviations. An asterisk (*) indicates this is not a parameter required by the MRP.

Springs	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
---------	---	-----------------------------

17-22-1 July: acidity*
18-2-1 July: DO*.

Streams	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
---------	---	-----------------------------

SW-2 September: DO*.
SW-3 September: field specific conductivity, Cl, SO₄, lab specific conductivity*, TDS, total cations*, and total anions*.

UPDES	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
-------	------------------------------	--

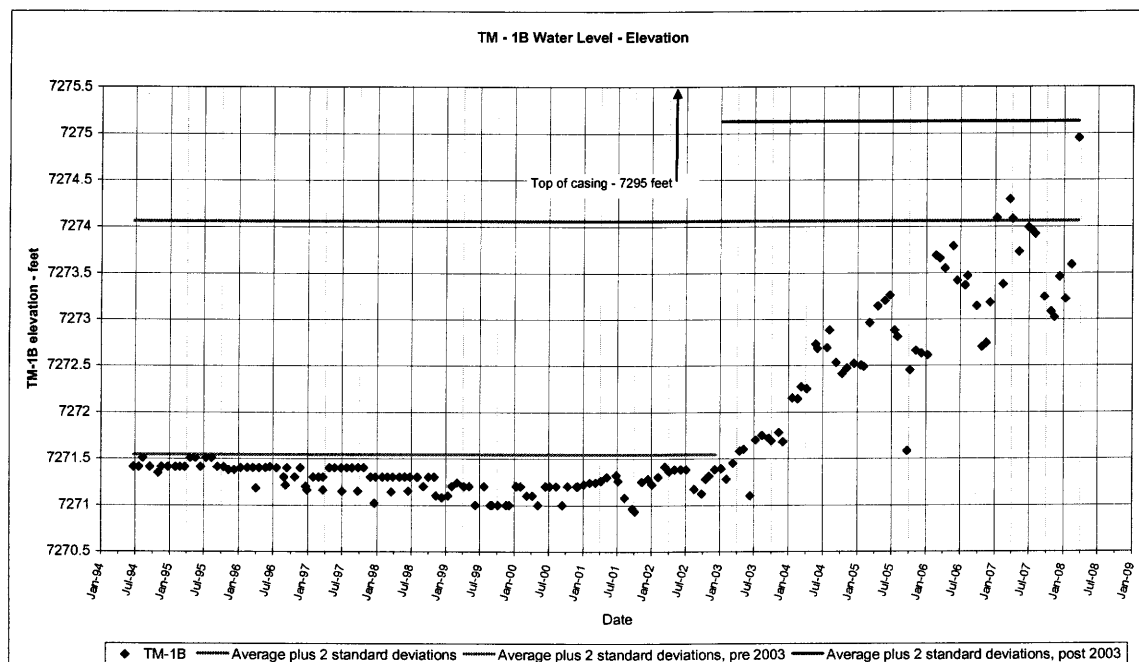
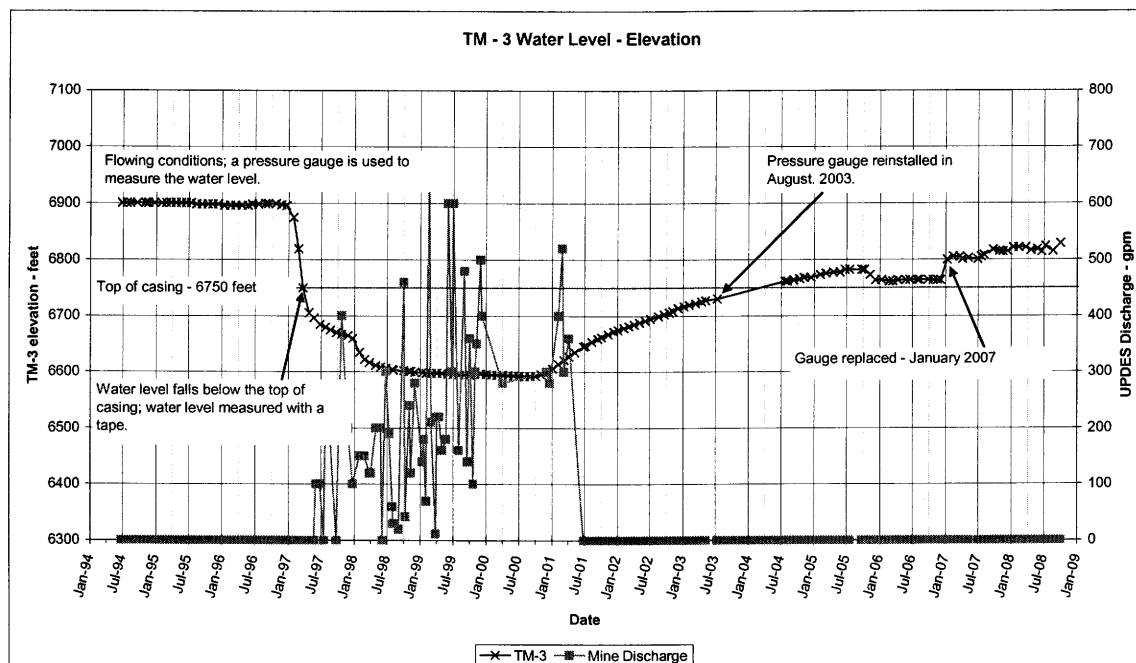
Wells	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
-------	---	-----------------------------

TM-3 July, August, and September: water elevation peaked in June 2005, remained steady through October, dropped 18.5 ft in November and December 2005 and remained virtually unchanged during 2006. The pressure gauge was replaced in January 2007 and values jumped to approximately match the pre-2006 curve. During the first half of 2007, the curve was relatively flat, but it resumed climbing during the third quarter. See the chart below.

TM-1B September: depth and bicarbonate as CaCO₃.

TM-1B July and August: depth. Water level rose slowly beginning in 2003, but appears to have peaked in early 2007 and to be declining. See the chart below.

WATER QUALITY MEMO



WATER QUALITY MEMO

4. On what date does the MRP require a five-year resampling of baseline water data.

The next renewal submittal is due 10/21/09 for renewal on 02/21/10. Baseline analyses were performed in 2001 and 2006. Analyses for baseline parameters will be repeated every 5 years, i.e., the next baseline analyses will be in 2011.

5. Based on your review, what further actions, if any, do you recommend?

There is no further action recommended at this time.

6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements?

YES ☐ NO ☒

7. Follow-up from last quarter, if necessary.

NA

8. Did the Mine Operator respond adequately to queries about missing or irregular data?

YES ☒ NO ☐